

Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds

Project Number: 136742

Soil Boring: ☒

Monitoring Well: ☐

Piezometer: ☐

Boring/Well Name: OU4-LEP-02

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Boring Location: OU4 Lined Evaporation Ponds		Northing: 1556754.62	Easting: 322575.23
Drilling Contractor: WDC		Top of PVC Elevation:	
Drilling Equipment: Geoprobe		Ground Surface Elevation: 4383.44 feet amsl	
Drilling Method: Direct-Push		Date Started: 10-06-08	Date Finished: 10-06-08
Sampling Method: Continuous Core		Completed Depth: 39 ft bgs	Water Depth: 32 ft bgs
Driller: Rick Smedley		WELL CONSTRUCTION	
Well Seal: N/A		Type and Diameter of Well Casing: N/A	
Borehole Diameter: 2"		Slot Size: N/A	Filter Material: Cement grout
Logged By: P. Bassett		Drilling Fluid: N/A	

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
5	4380	GW	GRAVEL with sand and silt (VLT Roadway) (0 - 19) Gravel is 3/4"-minus crushed rock. (Pumpback Roadway)						<p>Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System.</p> <p>Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet.</p> <p>Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line.</p> <p>All depths are below land surface unless stated otherwise.</p> <p>Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples.</p> <p>Type 2 Samples are representative of meteoric water mobility soil samples.</p>
15	4370	SM	SILT (Pond Sediments) (19 - 20) Dry, yellow. Pond sediments become saturated with						

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Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name Sample Type I Location	Sample Type II Name Sample Type II Location	Lithology	Remarks
25	4360	GW	depth.	OU4-LEP-02A-SC			
		SM	GRAVEL with sand and silt (VLT Subbase) (20 - 21) VLT Subbase is 3/4"-minus crushed rock. Overlaid by a thin, asphalt liner. Saturated.				
		ML	SAND (Native Soil) (21 - 23) Medium to coarse-grained sand, grading downwards to silt and clay.				
		CL	SILT / Sandy SILT (23 - 24.5) Sample: <u>OU4-LEP-02A-SC</u> from 22-25 feet.				
		ML	CLAY (24.5 - 25) Dense, hard.				
			Sandy SILT (25 - 29)				
30	4355	GW	GRAVEL (29 - 30.5) This may be slough. Sample: <u>OU4-LEP-02B-SC</u> from 29-32 feet.	OU4-LEP-02B-SC			
		SM	Silty SAND (30.5 - 32) Saturated at 32.0 feet.				
		SM	SAND (32 - 39) Medium-coarsed sand. Sample: <u>OU4-LEP-02-GW</u> from 35-39 feet. Groundwater grab sample from hydropunch screen.				
40	4340		Bottom of Borehole at 39 feet below ground surface.	OU4-LEP-02-GW			